DEERY® BRAND PAVEMENT PRESERVATION PRODUCTS FBJ-6297

FLEXIBLE ASPHALTIC PLUG JOINT SYSTEM, P/N 86297

PRODUCT DATA SHEET
JUNE 2011

DESCRIPTION DEERY FBJ-6297 exceeds the requirements of ASTM D-6297-01. The product is a blend of modified asphaltic binder, select aggregates and other modifiers, pre-measured and combined to create an all in one package of asphaltic plug joint material. The minimum aggregate content is 68% by weight. The pre-packaged product is placed in a heated mixer and dispensed directly into the primed joint block-out where it is leveled and allowed to cool. Compaction is not required. VOC=0 g/l.

USE DEERY FBJ-6297 is intended for use in either exposed concrete or asphalt overlaid decks, as a replacement for existing small movement expansion devices or as a first installation small movement joint. Per ASTM D-6297, use is limited to applications where joint width movement is not expected to exceed ±25 mm from the installation width. The standard minimum block out dimension is 50 mm x 500 mm. Do not install in excessive skew, incline, or severe stop-and-go configurations.

HEATING The material shall be heated in a thermostatically controlled mixer that utilizes oil as a heat transfer medium and has full sweep, horizontal shaft, paddle agitation capable of gently lifting the material from the bottom of the reservoir and turning the material over and over. The agitation shall be capable of mixing and suspending materials, filled with aggregates having a specific gravity as high as 3.0. Heating with dry radiant or direct flame heat is not recommended.

APPLICATION DEERY FBJ-6297 shall be installed in joints that have been properly constructed and/or repaired to produce vertical sidewalls and a level bottom. All joint surfaces shall be grit blasted, dry and free from dust, dirt, grease, loose materials and any other matter that will inhibit bonding. Backer rod shall be installed in the deck gap followed by a light application of a prime coat in the form of a hot-applied Stress Absorbing Mastic Adhesive (SAMA) to the bottom of the prepared surface. A suitable steel or aluminum bridging plate shall be embedded, centered in the joint, into the hot SAMA. SAMA is then troweled over the plate and onto all remaining uncoated vertical sidewalls and horizontal surfaces. The molten FBJ material shall be placed into the joint in layers no greater than 2 inches in depth and allowed to air cool to 140°F or below prior to placing next layer. Final layer shall be leveled smooth with the adjacent pavement. For enhanced surface texture and optimum skid resistance, approved aggregate chips may be embedded into the finished surface of the hot FBJ material. Ready for traffic as soon as it cools. Do not apply when pavement temperature is below 40°F (4°C).

PROPERTIES of BINDER
When sampled and heated to maximum heating temperature in accordance with ASTM D5167

MASTIC BINDER PROPERTIES	METHOD	SPECIFICATION
Softening Point (R&B)	ASTM D36	181°F (83°C) minimum
Tensile Adhesion	ASTM D5329	700% minimum
Ductility @ 77°F (25°C)	ASTM D113	400 mm minimum
Penetration @ 77°F (25°C), 150 G, 5 s	ASTM D5329	7.5 mm maximum
Low Temperature Penetration @ 0°F (-18°C), 200 G, 60 s	ASTM D5329	1.0 mm maximum
Flow, 5 h @ 140°F (60°C)	ASTM D5329	3.0 mm maximum
Resiliency @ 77°F (25°C)	ASTM D5329	40-70%
Asphalt Compatibility	ASTM D5329	Pass
Bond 3 cycles @ -7°F (20°C), 100% Elongation	ASTM D5329	Pass
Flexibility @ -23°F (-10°C)	ASTM D5329	Pass
Installation Temperature Range		350-400° F (177-204°C)*
Safe Heating Temperature Range		400°F (204°C)*

**Temperature of product measured at pavement surface. Use highest Recommended Application Temperature in cool weather. Prolonged heating at or above Recommended Application Temperature may severely damage product.*

PROPERTIES OF MINERAL AGGREGATE

Sieve Size 37.5 mm	90% Passing Minimum
Sieve Size 25.0 mm	80% Passing Minimum
Sieve Size 12.5 mm	50% Passing Minimum

PACKAGING Material is packaged in cardboard boxes containing a maximum of 40 lb (18.0 kg). Each box contains a quick melt liner, which is dissolved and incorporated into the melted product. All ingredients shall be accurately pre-proportioned in one container. The container shall be designed to insure that the binder portion shall be kept substantially separate from and not pre-mixed with any other ingredient.

FOR ADDITIONAL INFORMATION
Call:1-800-227-4059 toll free
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Web: www.deeryamerican.com

PERFORMANCE Temperature fluctuations, site conditions, surface preparation, traffic, installation technique, material selection, shape factor and surface treatment compatibility influence the effectiveness and useful life of Pavement Preservation treatments. Consider and monitor each element for optimum results. Purchaser and end user should determine applicability for use in their specific conditions.

WARRANTY Manufacturer warrants that these products meet applicable ASTM, AASHTO, Federal or State specifications at time of shipment. Techniques used for the preparation of the cracks and joints prior to sealing or filling are beyond our control as are the use and application of the products; therefore, manufacturer shall not be responsible for improperly applied or misused products. Remedies against manufacturer, as agreed to by manufacturer, are limited to replacing nonconforming product or refund (full or partial) of purchase price from manufacturer. All claims for breach of this warranty must be made within three (3) months of the date of use or twelve (12) months from the date of delivery by manufacturer, whichever is earlier. There shall be no other warranties expressed or implied**. For optimum performance, follow manufacturer recommendations for product installation.**

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